

CONTENT ADDRESSABLE DATA STORAGE AND
COMPRESSION FOR COMPUTER MEMORY

ABSTRACT

Methods, systems, and products of content addressable data storage and compression for computer memory are disclosed as providing a chunk of data comprising a quantity of input data; retrieving a memory block from computer memory; searching for a segment of the chunk that matches the memory block; and if a matching segment is found: discarding the matching segment and providing a retrieval key for the memory block as a retrieval key for the matching segment; identifying an unmatched portion of the chunk that does not match the memory block; and storing the unmatched portion and providing a retrieval key for the unmatched portion.